1. Покажите всех менеджеров, которые имеют в подчинении больше 6-ти сотрудников.

SELECT \*

FROM

(

SELECT First\_Name, Last\_Name, COUNT(Mananger\_ID) as cnt

FROM Employees e JOIN Jobs j ON e.Job\_id = j.Job\_id

WHERE Job\_title = 'Manager'

GROUP BY First\_Name, Last\_Name

) t

WHERE cnt > 6

2. Вывести min и max зарплату с вычетом commission\_pct для каждого департамента. (commission\_pct на базе указывается в процентах).

SELECT Department\_name,

MIN (Salary - Salary \* Comission\_pct / 100) AS min\_dep\_salary,

MAX (Salary - Salary \* Comission\_pct / 100) AS max\_dep\_salary,

FROM Employees e JOIN Departments d ON e.Department\_id = d.Department\_id

GROUP BY Department\_name

3. Вывести только регион, где работают больше всего людей.

SELECT Region\_name

FROM

(

SELECT Region\_name, COUNT(Employee\_id) as cnt, MAX(COUNT(Employee\_id)) over (PARTITION BY Region\_name) as max\_cnt

FROM Regions r JOIN Countries c ON r.Region\_id = c.Region\_id

JOIN Locations l ON c.Country\_id = l.Country\_id

JOIN Departments d ON l.Location\_id = d.Location\_id

JOIN Employees e ON d.Department\_id = e.Department\_id

GROUP BY Region\_name

) T

WHERE cnt=max\_cnt

4. Найдите разницу в процентах между средней зп по каждому департаменту от общей средней (по всем департаментам).

SELECT (

(SELECT AVG (avg\_dep)

FROM

(

SELECT Department\_ID, AVG (Salary) as avg\_dep

FROM Employees

GROUP BY Department\_ID

)

)

-

(SELECT AVG (Salary)

FROM Employees)

)

/

(SELECT AVG (Salary)

FROM Employees)

\* 100

5. Найдите людей, кто проработал больше, чем 10 лет в одном департаменте.

SELECT First\_name, Last\_name, years\_of\_employment

FROM

(

SELECT First\_name, Last\_name, DATEDIFF(year, Hire\_date, GETDATE()) AS years\_of\_employment, COUNT (Department\_id) as cnt

FROM Employees

WHERE DATEDIFF(year, Hire\_date, GETDATE())>10

GROUP BY First\_name, Last\_name, DATEDIFF(year, Hire\_date, GETDATE())

) T

WHERE cnt = 1

6. Найдите людей, кто занимает 5-10 место по размеру зарплаты.

SELECT \*

FROM

(

SELECT First\_name, Last\_name, DENSE\_RANK() OVER (ORDER BY Salary Desc)) as rnk

FROM Employees

GROUP BY First\_name, Last\_name

)

WHERE rnk BETWEEN 5 and 10